

T. Wessendorf

Re-run

1639

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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/840,277

DATE: 12/17/2002  
TIME: 10:48:32

Input Set : A:\A-688A.ST25.txt  
Output Set: N:\CRF4\12172002\I840277.raw

3 <110> APPLICANT: FEIGE, ULRICH  
4 KOHNO, TADAHIKO  
5 LACEY, DAVID LEE  
6 BOONE, THOMAS CHARLES  
8 <120> TITLE OF INVENTION: INTEGRIN/ADHESION ANTAGONISTS  
10 <130> FILE RÉFÉRENCE: A-688A  
12 <140> CURRENT APPLICATION NUMBER: 09/840,277  
13 <141> CURRENT FILING DATE: 2001-04-23  
15 <150> PRIOR APPLICATION NUMBER: 60/198,919  
16 <151> PRIOR FILING DATE: 2000-04-21  
18 <150> PRIOR APPLICATION NUMBER: 60/201,394  
19 <151> PRIOR FILING DATE: 2000-05-03  
21 <160> NUMBER OF SEQ ID NOS: 135  
23 <170> SOFTWARE: PatentIn version 3.1  
25 <210> SEQ ID NO: 1  
26 <211> LENGTH: 684  
27 <212> TYPE: DNA  
28 <213> ORGANISM: Homo sapiens  
30 <220> FEATURE:  
31 <221> NAME/KEY: CDS  
32 <222> LOCATION: (1)..(684)  
33 <223> OTHER INFORMATION:  
W--> 36 <400> 1

37	atg gac aaa act cac aca tgt cca cct tgt cca gct ccg gaa ctc ctg	48
38	Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu	
39	1 5 10 15	
41	ggg gga ccg tca gtc ttc ctc ttc ccc cca aaa ccc aag gac acc ctc	96
42	Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu	
43	20 25 30	
45	atg atc tcc cgg acc cct gag gtc aca tgc gtg gtg gac gtg agc	144
46	Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Asp Val Ser	
47	35 40 45	
49	cac gaa gac cct gag gtc aag ttc aac tgg tac gtg gac ggc gtg gag	192
50	His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu	
51	50 55 60	
53	gtg cat aat gcc aag aca aag ccg cgg gag gag cag tac aac agc acg	240
54	Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr	
55	65 70 75 80	
57	tac cgt gtg gtc agc gtc ctc acc gtc ctg cac cag gac tgg ctg aat	288
58	Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn	
59	85 90 95	
61	ggc aag gag tac aag tgc aag gtc tcc aac aaa gcc ctc cca gcc ccc	336
62	Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro	

#10

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63	100	105	110	
65	atc gag aaa acc atc tcc aaa gcc aaa ggg cag ccc cga gaa cca cag			384
66	Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln			
67	115	120	125	
69	gtg tac acc ctg ccc cca tcc cgg gat gag ctg acc aag aac cag gtc			432
70	Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val			
71	130	135	140	
73	agc ctg acc tgc ctg gtc aaa ggc ttc tat ccc agc gac atc gcc gtc			480
74	Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val			
75	145	150	155	160
77	gag tgg gag agc aat ggg cag ccg gag aac aac tac aag acc acg cct			528
78	Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro			
79	165	170	175	
81	ccc gtg ctg gac tcc gac ggc tcc ttc ctc tac agc aag ctc acc			576
82	Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr			
83	180	185	190	
85	gtg gac aag agc agg tgg cag cag ggg aac gtc ttc tca tgc tcc gtc			624
86	Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val			
87	195	200	205	
89	atg cat gag gct ctg cac aac cac tac acg cag aag agc ctc tcc ctg			672
90	Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu			
91	210	215	220	
93	tct ccg ggt aaa			684
94	Ser Pro Gly Lys			
95	225			
98	<210> SEQ ID NO: 2			
99	<211> LENGTH: 228			
100	<212> TYPE: PRT			
101	<213> ORGANISM: Homo sapiens			
103	<400> SEQUENCE: 2			
105	Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu			
106	1	5	10	15
109	Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu			
110	20	25	30	
113	Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser			
114	35	40	45	
117	His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu			
118	50	55	60	
121	Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr			
122	65	70	75	80
125	Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn			
126	85	90	95	
129	Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro			
130	100	105	110	
133	Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln			
134	115	120	125	
137	Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val			
138	130	135	140	
141	Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val			

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142 145 150 155 160  
145 Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro  
146 165 170 175  
149 Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr  
150 180 185 190  
153 Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val  
154 195 200 205  
157 Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu  
158 210 215 220  
161 Ser Pro Gly Lys  
162 225  
165 <210> SEQ ID NO: 3  
166 <211> LENGTH: 8  
167 <212> TYPE: PRT  
168 <213> ORGANISM: Artificial Sequence  
170 <220> FEATURE:  
171 <223> OTHER INFORMATION: Preferred linker  
173 <400> SEQUENCE: 3  
175 Gly Gly Gly Lys Gly Gly Gly Gly  
176 1 5  
179 <210> SEQ ID NO: 4  
180 <211> LENGTH: 8  
181 <212> TYPE: PRT  
182 <213> ORGANISM: Artificial Sequence  
184 <220> FEATURE:  
185 <223> OTHER INFORMATION: Preferred linker  
187 <400> SEQUENCE: 4  
189 Gly Gly Gly Asn Gly Ser Gly Gly  
190 1 5  
193 <210> SEQ ID NO: 5  
194 <211> LENGTH: 8  
195 <212> TYPE: PRT  
196 <213> ORGANISM: Artificial Sequence  
198 <220> FEATURE:  
199 <223> OTHER INFORMATION: Preferred linker  
201 <400> SEQUENCE: 5  
203 Gly Gly Gly Cys Gly Gly Gly Gly  
204 1 5  
207 <210> SEQ ID NO: 6  
208 <211> LENGTH: 5  
209 <212> TYPE: PRT  
210 <213> ORGANISM: Artificial Sequence  
212 <220> FEATURE:  
213 <223> OTHER INFORMATION: Preferred linker  
215 <400> SEQUENCE: 6  
217 Gly Pro Asn Gly Gly  
218 1 5  
221 <210> SEQ ID NO: 7  
222 <211> LENGTH: 5

RAW SEQUENCE LISTING  
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Input Set : A:\A-688A.ST25.txt  
Output Set: N:\CRF4\12172002\I840277.raw

223 <212> TYPE: PRT  
 224 <213> ORGANISM: Artificial Sequence  
 226 <220> FEATURE:  
 227 <223> OTHER INFORMATION: Laminin peptide  
 229 <400> SEQUENCE: 7  
 231 Tyr Ile Gly Ser Arg  
 232 1 5  
 235 <210> SEQ ID NO: 8  
 236 <211> LENGTH: 49  
 237 <212> TYPE: PRT  
 238 <213> ORGANISM: Artificial Sequence  
 240 <220> FEATURE:  
 241 <223> OTHER INFORMATION: Echistatin peptide  
 243 <400> SEQUENCE: 8  
 245 Glu Cys Glu Ser Gly Pro Cys Cys Arg Asn Cys Lys Phe Leu Lys Glu  
 246 1 5 10 15  
 249 Gly Thr Ile Cys Lys Arg Ala Arg Gly Asp Asp Met Asp Asp Tyr Cys  
 250 20 25 30  
 253 Asn Gly Lys Thr Cys Asp Cys Pro Arg Asn Pro His Lys Gly Pro Ala  
 254 35 40 45  
 257 Thr  
 261 <210> SEQ ID NO: 9  
 262 <211> LENGTH: 7  
 263 <212> TYPE: PRT  
 264 <213> ORGANISM: Artificial Sequence  
 266 <220> FEATURE:  
 267 <223> OTHER INFORMATION: RGD, NGR derivative peptide  
 269 <220> FEATURE:  
 270 <221> NAME/KEY: misc\_feature  
 271 <222> LOCATION: (2, 5 and)..(7)  
 272 <223> OTHER INFORMATION: Xaa is any amino acid  
 275 <400> SEQUENCE: 9  
**W--> 277 Arg Xaa Glu Thr Xaa Trp Xaa**  
 278 1 5  
 281 <210> SEQ ID NO: 10  
 282 <211> LENGTH: 7  
 283 <212> TYPE: PRT  
 284 <213> ORGANISM: Artificial Sequence  
 286 <220> FEATURE:  
 287 <223> OTHER INFORMATION: RGD, NGR derivative peptide  
 289 <220> FEATURE:  
 290 <221> NAME/KEY: misc\_feature  
 291 <222> LOCATION: (2, 5 and)..(7)  
 292 <223> OTHER INFORMATION: Xaa is any amino acid  
 295 <400> SEQUENCE: 10  
**W--> 297 Arg Xaa Glu Thr Xaa Trp Xaa**  
 298 1 5  
 301 <210> SEQ ID NO: 11  
 302 <211> LENGTH: 9

## RAW SEQUENCE LISTING

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Input Set : A:\A-688A.ST25.txt

Output Set: N:\CRF4\12172002\I840277.raw

303 <212> TYPE: PRT  
304 <213> ORGANISM: Artificial Sequence  
306 <220> FEATURE:  
307 <223> OTHER INFORMATION: RGD, NGR derivative peptide  
309 <220> FEATURE:  
310 <221> NAME/KEY: misc\_feature  
311 <222> LOCATION: (2, 3, 7 and)...(8)  
312 <223> OTHER INFORMATION: Xaa is any amino acid  
315 <400> SEQUENCE: 11

W--> 317 Cys Xaa Xaa Arg Leu Asp Xaa Xaa Cys

318 1 5  
321 <210> SEQ ID NO: 12  
322 <211> LENGTH: 7  
323 <212> TYPE: PRT  
324 <213> ORGANISM: Artificial Sequence  
326 <220> FEATURE:  
327 <223> OTHER INFORMATION: RGD, NGR derivative peptide  
329 <220> FEATURE:  
330 <221> NAME/KEY: misc\_feature  
331 <222> LOCATION: (2 and)...(3)  
332 <223> OTHER INFORMATION: Xaa is any amino acid  
335 <400> SEQUENCE: 12

W--> 337 Cys Xaa Xaa Arg Gly Asp Cys

338 1 5  
341 <210> SEQ ID NO: 13  
342 <211> LENGTH: 9  
343 <212> TYPE: PRT  
344 <213> ORGANISM: Artificial Sequence  
346 <220> FEATURE:  
347 <223> OTHER INFORMATION: RGD, NGR derivative peptide  
349 <220> FEATURE:  
350 <221> NAME/KEY: misc\_feature  
351 <222> LOCATION: (1, 2, 3, 7, 8 and)...(9)  
352 <223> OTHER INFORMATION: Xaa is any amino acid  
355 <400> SEQUENCE: 13

W--> 357 Xaa Xaa Xaa Arg Gly Asp Xaa Xaa Xaa

358 1 5  
361 <210> SEQ ID NO: 14  
362 <211> LENGTH: 9  
363 <212> TYPE: PRT  
364 <213> ORGANISM: Artificial Sequence  
366 <220> FEATURE:  
367 <223> OTHER INFORMATION: RGD, NGR derivative peptide  
369 <220> FEATURE:  
370 <221> NAME/KEY: misc\_feature  
371 <222> LOCATION: (2 )...(8)  
372 <223> OTHER INFORMATION: Xaa is any amino acid  
376 <400> SEQUENCE: 14

W--> 378 Cys Xaa Cys Arg Gly Asp Cys Xaa Cys

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 12/17/2002  
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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:9; Xaa Pos. 2,5,7  
Seq#:10; Xaa Pos. 2,5,7  
Seq#:11; Xaa Pos. 2,3,7,8  
Seq#:12; Xaa Pos. 2,3  
Seq#:13; Xaa Pos. 1,2,3,7,8,9  
Seq#:14; Xaa Pos. 2,8  
Seq#:15; Xaa Pos. 1,2,5,6,7,8  
Seq#:16; Xaa Pos. 1,2,3,6,7,8,9,10  
Seq#:17; Xaa Pos. 3,5,6,13,15  
Seq#:18; Xaa Pos. 2,3,4,7,15  
Seq#:19; Xaa Pos. 3,4,5,6,8,13,15,18  
Seq#:20; Xaa Pos. 2,5,6,7,12,13,14  
Seq#:21; Xaa Pos. 1,3,6,9,12,13  
Seq#:40; Xaa Pos. 3,4  
Seq#:50; Xaa Pos. 2,3  
Seq#:58; Xaa Pos. 5  
Seq#:59; Xaa Pos. 6  
Seq#:86; Xaa Pos. 3,15  
Seq#:87; Xaa Pos. 13,15

## VERIFICATION SUMMARY

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Input Set : A:\A-688A.ST25.txt

Output Set: N:\CRF4\12172002\I840277.raw

L:36 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:1,Line#:33  
L:277 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
L:468 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
L:492 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0  
L:512 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
L:516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:16  
L:536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0  
L:556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0  
L:828 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0  
L:974 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0  
L:1120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:0  
L:1140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:0  
L:1536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86 after pos.:0  
L:1556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:87 after pos.:0  
L:1878 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:108,Line#:1869